

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant (s): George et al.

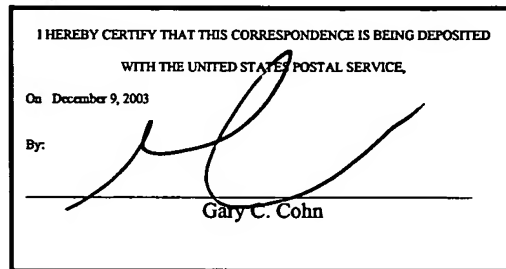
Serial No.: Unknown

Group Art Unit: Unknown

Filed: December 9, 2003

Examiner: Unknown

For: NANOCOATED PRIMARY PARTICLES AND METHOD FOR THEIR  
MANUFACTURE (as amended)



Hon. Commissioner of Patents & Trademarks  
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449. A copy of all cited patents and printed publications is enclosed.

☒ This paper is being filed before the latest of (a) three months after the filing date (if a national application), (b) three months after the date of entry of the national stage (if an international application or (c) before the date of mailing of the first action on the merits.

☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this information disclosure statement.

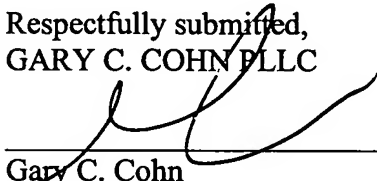
☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign

application, and, to the knowledge of the undersigned, no item of information contained in this information disclosure statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this information disclosure statement.

- ☐ The fee set forth in 37 CFR §1.17(p) is enclosed.
- ☐ A petition requesting consideration of this information disclosure statement is enclosed.
- ☐ The petition fee set forth in 37 CFR §1.17(i) is enclosed.

The Examiner is requested to review each reference and formulate his or her own understanding thereof.

Respectfully submitted,  
GARY C. COHN PLLC



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<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use Several Sheets if necessary)</i>		ATTY DOCKET NO. UTC 008A	SERIAL NO.
		APPLICANT George et al.	
		FILING DATE December 9, 2003	GROUP
		OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)	
		Rony, DIFFUSION KINETICS WITHIN SUPPORTED LIQUID-PHASE CATALYSTS, Journal of Catalysis 14, 142-147 (1969)	
		Yin et al., STUDY OF SUPPORTED LIQUID PHASE CATALYSTS FOR HYDROFORMYLATION OF OLEFINS CONTAINED IN FCC DRY GAS, Beijing, China, Vol. 2, 614-620 (1991)	
		Wu et al., CATALYTIC HYDRODECHLORINATION OF CCL <sub>4</sub> OVER SILIA-SUPPORTED PDCL <sub>2</sub> -CONTAINING MOLTEN SALT CATALYSTS: THE PROMOTIONAL EFFECTS OF COCL <sub>2</sub> AND CUCL <sub>2</sub> , Journal of Catalysis 161, 164-177 (1996)	
		Hoffmeister et al., THE INFLUENCE OF THE PORE STRUCTURE OF THE SUPPORT ON THE PROPERTIES OF SUPPORTED LIQUID-PHASE CATALYSTS, Chem. Engineering Science, Vol. 45, No. 8, 2575-2580 (1990)	
		Kolodziej et al., A STUDY OF THE INTERNAL DIFFUSION OF GASES IN POROUS CATALYSTS IN THE PRESENCE OF A LIQUID PHASE, Chemical Engineering and Processing, 31, 255-261 (1992)	
		Jutka et al., INVESTIGATIONS ON THE USE OF SUPPORTED LIQUID-PHASE CATALYSTS IN FLUIDIZED BED REACTORS, Institute for Technology, Vol. 88, No. 289, 122-129	
		Jelles et al., SUPPORTED LIQUID PHASE CATALYSTS, Studies in Surface Science and Catalysis, Vol. 116, 667-674 (1998)	
		Freeman et al., THERMAL DESTRUCTION OF HAZARDOUS WASTE- A STATE OF THE ART VIEW, Journal of Hazardous materials 14, 103-117 (1987)	
		Brusewitz et al., PROBLEMS IN USE OF SUPPORTED LIQUID-PHASE CATALYSTS IN FLUIDIZED BED REACTORS, Chem. Eng. Technol. 15, 385-389 (1992)	
		Johanson et al., ELIMINATION OF HAZARDOUS WASTES BY THE MOLTEN SALT DESTRUCTION PROCESS, Rockwell International, 234-242	
		Stelman et al., TREATMENT OF MIXED WASTES BY THE MOLTEN SALT OXIDATION PROCESS, Rockwell International, 795-799	
		Upadhye, MOLTEN SALT DESTRUCTION OF ENERGETIC MATERIAL WASTES AS AN ALTERNATIVE TO OPEN BURNING, Chemistry for the Protection of the Environment 2, 267-276 (1996)	
		Upadhye, MOLTEN SALT TAKES THE BANG OUT OF HIGH EXPLOSIVES, <a href="http://www.llnl.gov/str/upadhye.html">http://www.llnl.gov/str/upadhye.html</a> , 1-4 (2000)	
EXAMINER		DATE CONSIDERED	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.			

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Klaus et al., ATOMIC LAYER CANTROLLED GROWTH OF $\text{SiO}_2$ FILMS USING BINARY REACTION SEQUENCE CHEMISTRY, Appl. Phys. Lett. 70, 1092-1094 (1997)
		Dillon et al., SURFACE CHEMISTRY OF $\text{Al}_2\text{O}_3$ DEPOSITION USING $\text{Al}(\text{CH}_3)_3$ AND $\text{H}_2\text{O}$ IN A BINARY REACTION SEQUENCE, Surface Science 322, 230-242 (1995)
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		Joshi et al., METAL-ORGANIC SURFACTANTS AS SINTERING AIDS FOR SILICON NITRIDE IN AN AQUEOUS MEDIUM, J. Am. Ceram. Soc., 77(11) 2926-34 (1994)
		Powell, et al., GAS-PHASE COATING OF $\text{TiO}_2$ WITH $\text{SiO}_2$ IN A CONTINUOUS FLOW HOT-WALL AEROSOL REACTOR, J. Mater. Res. 12, pp. 552-559, Feb 1997
		Weimer et al., CONFORMA ENCAPSULATION OF FINE PARTICLES WITH CERAMIC NANOLAYERS, AIChE 2001 Annual Meeting, November 4-9, 2001, Reno, Nevada.
		Klaus et al., $\text{SiO}_2$ CHEMICAL VAPOR DEPOSITION AT ROOM TEMPERATURE USING $\text{SiCl}_4$ AND $\text{H}_2\text{O}$ WITH AN $\text{NH}_3$ CATALYST, J. Electrochem. Soc., 147(7) 2658-2664 (2000)
		Powell et al., SYNTHESIS OF ALUMINA- AND ALUMINA/SILICA COATED TITANIA PARTICLES IN AN AEROSOL FLOW REACTOR, Chem. Mater. 1997, 9, 685-693.
		Lange, POWDER PROCESSING SCIENCE AND TECHNOLOGY FOR INCREASED RELIABILITY, J. Am. Ceram. Soc. 72 91) 3-15 (1989)
		Powell et al., COATING OF $\text{TiO}_2$ PARTICLES BY CHEMICAL VAPOR DEPOSITION, Chem. Vap. Deposition 1996, pp179-181.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE <small>IF APPROPRIATE</small>
	5,705,265	Jan. 6, 1998	Clough et al.	428	307.3	
	5,271,969	Dec. 21, 1993	Ogura	427	561	
	5,273,942	Dec. 28, 1993	McCauley et al.	501	97	
	5,985,175	Nov. 16, 1999	Fan et al.	252	301.4	
	6,613,383	Sept. 2, 2003	George et al.	427	212	
	3,647,358		Greenberg			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES   NO

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)


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